

JEWEL M JAIN

Digital Transformation Student (B.Tech)

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SUMMARY

4th year B.Tech student in Digital Transformation with strong foundation in CS, maths, and DS. Skilled in robotics, ML, and full-stack development with Python. Driven by curiosity and passion for solving challenging problems.

PROJECTS

Query-Conditioned Reddit Stance Summarizer

Developed an NLP pipeline to summarize Reddit discussions conditioned on user queries and identify stance alignment with reference posts.

Tools used: SpaCy(keyword extraction), PRAW(scrape reddit), DistilBART, Bart-Large, Gemini API(for stance), Pytorch to fine tune Bart(with gemini generated data), streamlit(UI).

Monk AI (RAG System for ISKCON Literature)

Designed and implemented a Retrieval-Augmented Generation (RAG) system tailored for ISKCON book data.

Tools used: selenium(web scrape), MongoDB(store user chat history and credentials), ChromaDB(vector Db), hugging face(embedding and reranking model), LangChain(orchestration), groq api(for LLM summarizer), FastAPI(backend UI), streamlit(frontend UI).

Amazon review Sentiment analysis and wordcloud generation

For Deciding if a product is good or bad based on top review(comment) analysis, sentiment analysis and word cloud generation, further combining sentiment analysis and word cloud to display a colored word cloud where green is good sentiment red is bad.

Tools used: Selenium(web scraper), numpy, pandas(data preprocessing), Keras(sentiment analysis), wordcloud(data visualization).

New Phone Recommendation System

Recommend New phone to users based on current phone specifications(total storage, total Ram, battery life) and details(current storage use).

Tools used: numpy, pandas(data preprocessing), Tkinter (GUI)

Object picking Robot

built an object-picking mobile robot (Arduino-controlled) using a power bank for power, 2 DC drive motors, 4 hobby servos + gripper for picking, HC05 Bluetooth for phone control, and basic sensors for navigation; tested and iterated for reliable pick-and-place operation.

Solar Decathlon India Competition (Runner-Up)

Designed and developed a sustainable cooling product using terracotta(sustainable, passive cooling) and IOT devices(monitors). Recognized as Runner-Up in the national-level Solar Decathlon India competition.

Tools used: ESP32(reading and sending data to cloud), humidity sensor(DHT22), temperature sensing, a centrifugal fan(active cooling) and Ultrasonic Humidifier Module(active cooling), and cellulose mesh(passive cooling).

Research Project on Physiological Stress Responses using Sensors

Conducted research on stress responses on different stimuli utilizing biological sensors(GSR sensors), Arduino(record), python(analysis), enhancing analytical abilities and research methodologies.

Bee Suitability Analysis using Satellite Data (India)

Addressed the critical problem of bee population decline specifically for india. analyze and identify bee suitable habitat for Kerala, Karnataka and Rajasthan.

Tools used: GEE (satellite data), SKlearn (unsupervised clustering), image preprocessing.

EDUCATION

Atria University

B.Tech – Digital Transformation (Computer Science and Business Studies)
currently 4th year | **CGPA: 8.9**

2022 – 2026

Campion School

12th Grade: 83% (Mathematics, Physics, Chemistry, English, Computer Science)
10th Grade: 83% (Mathematics, Science, Computer Application, English, Hindi)

2020 – 2022

INTERNSHIPS

iDataalytics — Data Analyst

<https://www.idatalytics.com/>

Jezt Technologys — Django Web Developer

LinkedIn Company Page

SKILLS

Programming & Application:

DBMS | Python | HuggingFace Models | Web Scraping
| Geospatial Analysis | Model Training & Fine-tuning
| Web development | embedded system | Data preprocessing
| Exploratory Data analysis | Data visualization | Robotics

Domain Expertise:

NLP (Summarization, Stance Detection) | RAG Systems
CNNs & ResNet | Siamese Networks | Face Verification

Frameworks & Tools:

Django | FastAPI | Streamlit | Flask | GEE | LangChain
| ChromaDB | MongoDB | MySQL | Excel | PowerPoint
| Github | groq api | PRAW | NLTK | pytorch | selenium
| SQL | ESP | Arduino | Raspberry Pi

Soft Skills:

Communication | Teamwork | Logical Reasoning
| Critical thinking | Research & Documentation
| Problem Solving | Presentation

COURSES

Data Science — Whitehatjr

Robotics — Robohome